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Search Report
EIC 2600

STIC Database Tracking Number: 264647

To: PING LEE
Location: KNX-6C89
Art Unit: 2615
Monday, July 7, 2008

Case Serial Number: 08/777958

From: VIRGIL TYLER
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Search Notes

Dear Examiner LEE:

Attached are the search results (from commercial databases) for your case.

Tags mark patents/articles, which might be of interest. After you review all records including tagged and untagged records, if you wish to order the complete text of any record, please submit request(s) directly to the STIC-EIC 2600 Email Box or hand carry the request to the front desk of the EIC.

Please, call if you have any questions or suggestions. I have enclosed a Search Results Feedback Form to facilitate further comments or suggestions. Please, take a few minutes to share with us your feedback.

Thanks!

Virgil O. Tyler, ASRC MS
TO Working Supervisor-EIC 2600
Sr. Patent Information Researcher

sira
Search and Information Resources Administration

[File 2] **INSPEC** 1898-2008/Jun W2

[File 6] **NTIS** 1964-2008/Jul W3

[File 8] **Ei Compendex(R)** 1884-2008/Jun W5

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2008/Jun W5

[File 35] **Dissertation Abs Online** 1861-2008/Nov

[File 65] **Inside Conferences** 1993-2008/Jul 04

[File 95] **TEME-Technology & Management** 1989-2008/Jun W5

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2008/Apr

[File 144] **Pascal** 1973-2008/Jul W1

[File 256] **TecInfoSource** 82-2008/Aug

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13

**File 583: This file is no longer updating as of 12-13-2002.*

[File 603] **Newspaper Abstracts** 1984-1988

**File 603: This is a closed file.*

[File 483] **Newspaper Abs Daily** 1986-2008/Jul 07

[File 63] **Transport Res(TRIS)** 1970-2008/May

[File 81] **MIRA - Motor Industry Research** 2001-2008/Dec


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Set      Items   Description
S1      395367   S SPEAKER?? OR TRANSDUC??? OR WOOFER??
S2         373   S BAZOOKA
S3       13455   S (DISPOSED OR ARRANGE?? OR INSTALL????? OR INSERT??? OR
HANG??? OR ARRANGEMENT OR MOUNT??? OR ATTACH???? OR ADJOIN??? OR AROUND OR
PERIPHERY OR PERIPHERAL?? OR SURROUNDS OR SURROUNDING OR ARCUATE OR
SUPPORT??? OR TUBULAR)(5N)(S1 OR S2)
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S4     9149962   S TRUNK OR SHELF OR BOOT OR ENCLOSURE OR CAB OR COMPARTMENT??
OR VOLUME OR AREA OR HOUSING OR TUBE?? OR CHANNEL???? OR TUNNEL???? OR WALL??
OR GRILL OR FRAME OR PORT?? OR DECK
S5       13205   S (SPATIAL OR SPACE)(1N)(MANAG??? OR MANAGEMENT OR OPTIMIS???
OR OPTIMIZ??? OR OPTIMI?ATION)
S6       14062   S AU=(ROSEN, M? OR ROSEN M? OR HAMILTON, D? OR HAMILTON D?)
S7      105111   S (WAVEGUIDE?? OR GUIDE??)(3N)(SOUND?? OR WAVE?? OR
ACOUSTIC?? OR ACOUSTICAL OR AUDIO)
S8        3460   S S3 AND S4
S9         293   S S8 AND (CAR?? OR AUTO?? OR AUTOMOBILE?? OR VEHICLE?? OR
VAN?? OR TRUCK?? OR SUV)
S10          0   S S9 AND S5
S11         10   S S9 AND S7
S12          4   RD  (unique items)
S13          0   S S12 NOT PY>1992
S14          1   S S12 NOT PY>1996
S15          0   S S14 NOT SHOCK
S16         17   S S9 AND (BASS OR LOW)(3N)FREQUENC???
S17         11   RD  (unique items)
S18          1   S S17 NOT PY>1992
S19          3   S S17 NOT (S14 OR S18 OR PY>1996)
S20          1   S S19 NOT SHOCK
S21          0   S S20 NOT RAKE
S22          0   S S8 AND S5
S23         60   S S8 AND S7
S24         37   RD  (unique items)
S25          5   S S24 AND (BASS OR LOW)(3N)FREQUENC???
S26          1   S S25 NOT (S14 OR S18 OR S20 OR PY>1992)
S27          0   S S26 NOT SUPERSONIC
S28         67   S S9 AND (REAR OR FRONT OR BACK OR SIDE?? )
S29          5   S S28 AND FLOOR
S30          1   S S29 NOT DEEP()SEA
S31          0   S S6 AND S9
S32          2   S S6 AND S8
S33          0   S S32 NOT (BUFFER OR TURBO?)
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18/3,K/1 (Item 1 from file: 2) Links
Fulltext available through: STIC Full Text Retrieval Options
INSPEC

04215934 **INSPEC Abstract Number:** B88060483
Title: Twin-load horn type speaker 'Sound Space Twin Load Horn' (SSP-1)
Author Obata, S.; Nakama, Y.; Saiki, S.; Watanabe, K.; Kimura, Y.
Author Affiliation: Cooperate Bus. Dev. Div., Matsushita Electr. Ind. Co. Ltd., Osaka, Japan
Journal: National Technical Report vol.34, no.2 p. 177-83

Publication Date: April 1988 **Country of Publication:** Japan
CODEN: NTROAV **ISSN:** 0028-0291
Language: Japanese
Subfile: B
Abstract: The horn-loaded speaker system used in the Audio-Visual Pana Capsule for **low frequency** sound reproduction has a length of 3.8 m, being unsuitable to a small **car** interior because of the acoustic characteristics. The newly developed twin-load horn speaker 'Sound Space Twin Load Horn' has a unique design with reduced external dimensions. The **speaker** system can be **mounted** in the **car** rear seat by folding the horn several times and making it into nearly an acoustic **tube** with smaller flaring constants. For the extension of the **low frequency**

response range, two horns (twin loads) of different length are **mounted** on the back of the **speaker**, eliminating the response dips at **around** 100 Hz. Furthermore, an acoustic low-pass filter is incorporated for uniform sound response in the medium and high frequency ranges. The speaker system features low distortion especially in the **low frequency** range as well as high efficiency. Therefore, applications to headphone stereo sets and **car** audio sets are expected.
Identifiers: ...**low frequency** sound reproduction... ...**car** rear seat... ...**car** audio sets
Astronomical Objects:

30/3,K/1 (Item 1 from file: 81) Links
MIRA - Motor Industry Research

144257
Common architecture, uncommon results: Lear Corporation drives mass customization and relentless advancement in automotive innovation

Lear Corp. - Press release
March 6, 2000

Document Type: PRESS RELEASE **Language:** ENGLISH
Record Type: ABSTRACT
Supplier Record Type: Press Release

Detroit, MI, March 6, 2000 - Lear Corporation (NYSE: LEA) today introduced its Common Architecture Strategy that makes mass customization of **vehicle** interiors feasible. The end result could provide the consumer with unprecedented freedom to literally 'create' his or her own **vehicle** interior!

Lear's Common Architecture Strategy is based on a standardized common structure that supports the use of interchangeable, modular components built off of the same substructures. It provides the flexibility to enable cost-effective production of multiple interior variations. It also reduces both cost and lead-time for the **vehicle** manufacturer while continuing to instill a sense of brand.

Consumers could have the opportunity to order **vehicles** with individualized interiors that reflect their own personal taste and lifestyle. This ability to customize could take place not only when the consumer initially orders a **vehicle** but also throughout the ownership experience. Upgrading or adding new features as the owner's needs, lifestyle and earnings evolve - and as technology advancements are introduced - would enhance owner satisfaction, build brand loyalty and sustain **vehicle** longevity.

Lear 's innovative Common Architecture Strategy was unveiled at the company's massive display at the Society of Automotive Engineers (SAE) 2000 World Congress and Exposition. By reconfiguring a complete **vehicle** interior for two vastly differing market segments using a common structure, Lear demonstrated the amazing simplicity of this product differentiation process.

'Lear's interchangeable modules... ...marketplace. Common architecture throughout is designed to accommodate any number of unique interiors and undergoes rigorous safety testing so that the modules arrive at the **vehicle** assembly pre-tested and ready to install.

'Lear's modular components contain all electronic connections, switches and electrical distribution systems, so when they are married... ...and validated by Lear - before they reach the final assembly line.'

Lear's SAE demonstration of its Common Architecture Strategy at SAE produced a complete **vehicle** interior for two completely different market segments using one common architecture - an 'edgy' custom Generation Y creation that is colorful, fast, fun and 'uniquely me... ...market potential (some 80 million strong) and its search for products unique to their generation that form the driving force for mass customization in the **auto** industry.

Lear's Common Architecture is a base structure for the five interior systems - instrument panel and console system, seat system, door and interior trim... ...distribution systems. As the only Tier One supplier capable of fully integrating this sophisticated network of wiring, switches and electronic control modules indispensable to a **vehicle**'s operation, Lear can unite electrical distribution technologies and electronic components into interiors thus enabling mass customization.

'Boundaries are eliminated when modular systems are created... ...systems on the instrument panel's center console,' Masters said.

The Common Architecture for the instrument panel system is the lower platform and structural cross-**car** ducts, common electrical architecture, steering column support bracket, pedals and heater/air conditioning unit case. Reconfigurable items include the 'topper' (top portion of the instrument... ...the headlamps, sound system, and heating, ventilation and air conditioning (HVAC) system.

The seating system's Common Architecture displayed at SAE consists of a standardized **frame**, Modular Adjuster Family seat track system, ProTec(TM) Self-Aligning Head Restraint (SAHR) and one-step, folding **rear** seats. The seats' bolsters (seat cushion **side** supports), body cloth, belt systems, power controls and add-on features like four-way power lumbar support are among those items open to consumer choice... ...design and twist-lock visor attachment. Its distinctive options include Lear's revolutionary OASys(TM) Overhead Audio System that converts the entire headliner into a **speaker** using flat-profile sound drivers **mounted** overhead to replace bulky cone **speakers**, as well as flexible **front** console features, **rear** seat entertainment, **Rear** Vision Camera and removable combination dome lamp/first aid kit.

A common mini-cassette module provides the Common Architecture for the door and interior trim... ...storage bins, removable trash bins and CD storage pocket, as well as armrest, door and window controls, and trim options.

Common Architecture for flooring and **cargo** areas include integrated HVAC ducts and standardized **cargo** retention fixtures. Among the feature choices would be a sports rack (for bikes, snowboard and skis), flexible storage platforms that attach to anchors in the load **floor** or seats, extendable grocery bag hooks and various flooring materials.

The pace and extent of the **auto** industry's move into mass customization is anyone's guess. Lear stands ready with its Common Architecture Strategy to assist the automakers that make up...